

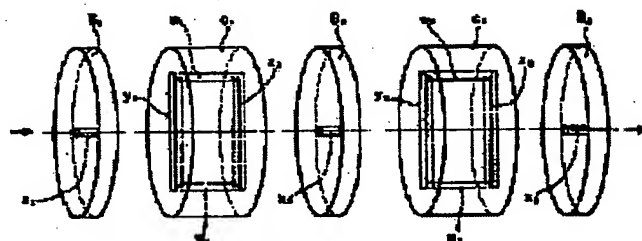
**ATOMIZATION**

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- european:  
**Application number:** JP19970200575 19970725  
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**Abstract of JP11042428**

**PROBLEM TO BE SOLVED:** To enhance productivity by stepwise changing the passage areas in the flow direction front and rear the positions where the fluid contg. a substance to be atomized introduced from the inlet at a high velocity is collided with the wall face, and the collision is caused due to branching of the flow and/or recombining of the flows. **SOLUTION:** The atomization block A in an atomizer is formed by arranging the branched flow forming blocks C1 and C2 between the straight flow forming blocks B1 and B2, B2 and B3 respectively, and straight passages X1 to X3 are formed at the axial centers of the blocks B1 to B3. When a fluid to be treated is introduced from the passage X1, collision with the wall face, flow branch and collision of the fluids are repeated, and the grain in the fluid is successively atomized. In this case, the flow velocity of the fluid is made higher as it goes to the downstream side. When the flow velocities are denoted by V1 to V9 from upstream side in the flow direction, the cross-sectional areas of the respective passages are adjusted to that the formula  $V1 < V2 < \dots < V9$  is satisfied to promote atomization.



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